Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (currently amended) An apparatus for treating waste material comprising:
 - (a) a thermal reactor including a hollow housing and a reaction chamber disposed within said hollow housing;
 - (b) feed means connected to said thermal reactor for CONTROLLABLY feeding the waste material to reactor the reaction chamber of said thermal reactor;
 - (c) conveyor means for conveying the waste material through said reactor reaction

 chamber of said thermal reactor, wherein said conveyor means comprises a first

 conveyor mechanism and a second conveyor mechanism, each of said first and

 second conveyor mechanisms including a first helical screw section and a second

 paddle section; and
 - (d) heating means for heating said reaction chamber, said heating means comprising a thermal oxidizer connected to said thermal reactor for initially heating said reaction chamber.
- 2. (original) The apparatus as defined in claim 1 in which said conveyor means comprises a pair of conveyor mechanisms rotatably mounted within said reaction chamber in a side-by-side relationship.
- 3. (original) The apparatus as defined in claim 1 in which said thermal oxidizer includes first and second subchambers divided by a baffle means for controlling the flow of gases between said first and second subchambers.
- 4. (original) The apparatus as defined in claim 1 further including drying means operably associated with thermal reactor for drying the waste material.
- (original) The apparatus as defined in claim 1 in which said feed means comprises:(a) a waste receiving hopper connected to said thermal reactor; and

- (b) a feed screw connected to said waste-receiving hopper for CONTROLLABLY transporting the solid waste material toward said thermal reactor.
- 6. (original) The apparatus defined in claim 1 in which said feed means comprises:
 - (a) a waste receiving hopper connected to said thermal reactor;
 - (b) a feed screw connected to said waste receiving hopper for transporting liquid waste material toward said pyrolytic converter; and
 - (c) atomizing means connected to said feed screw for at least partially atomizing the liquid waste material prior to transporting the liquid waste material toward said pyrolytic converter.
- 7. (original) The apparatus as defined in claim 1 in which said thermal oxidizer comprises:
 - (a) a housing having first and second chambers; and
 - (b) baffle means disposed between said first and second chambers for controlling the flow of gases therebetween.
- 8. (currently amended) The apparatus as defined in claim 1 in which said reaction chamber of said thermal reactor comprises an elongated, hollow structure having first and second subchambers and in which said eonveyor means comprises a first conveyor mechanism is mounted within said first subchamber and [[a]]said second conveyor mechanism is mounted within said second subchamber, each of said first and second conveyor mechanisms including a first helical screw section and a second paddle section.
- 9. (original) The apparatus as defined in claim 1 further including a steam generating means connected to said thermal oxidizer for generating steam using heated gases received from said thermal oxidizer.
- 10. (original) The apparatus as defined in claim 7 further including a steam driven turbine connected to said steam generating means for receiving steam therefrom to drive said turbine.
- 11. (currently amended) An apparatus for treating waste material comprising:

- (a) a thermal reactor including a hollow housing and a reaction chamber disposed within said hollow housing;
- (b) feed means connected to said thermal reactor for CONTROLLABLY feeding the waste material to reactor chamber of said thermal reactor;
- (c) conveyor means for conveying the waste material through said reactor chamber of said thermal reactor, said conveyor means comprising a pair of conveyor mechanisms rotatably mounted within said reaction chamber in a side-by-side relationship, wherein each of said conveyor mechanisms comprises a first screw conveyor section and a plurality of paddle flights;
- (d) heating means for heating said reaction chamber, said heating means comprising a thermal oxidizer connected to said thermal reactor for initially heating said reaction chamber, said thermal oxidizer comprising first and second subchambers divided by a baffle means for controlling the flow of gases between said first and second subchambers; and
- (e) drying means operably associated with thermal reactor for drying the waste material.
- 12. (original) The apparatus as defined in claim 1 in which said feed means comprises:
 - (a) a waste receiving hopper connected to said thermal reactor; and
 - (b) a feed screw connected to said waste-receiving hopper for CONTROLLABLY transporting the waste material toward said thermal reactor.
- 13. (cancelled)
- 14. (original) The apparatus as defined in claim 11 further including pressure sensing means operably associated with said baffle means for sensing pressure differential between said first and second subchambers.
- 15. (original) The apparatus as defined in claim 11 further including a steam generating means connected to said thermal oxidizer for generating steam using heated gases received from said thermal oxidizer.

- 16. (original) The apparatus as defined in claim 15 further including a steam driven turbine connected to said steam generating means for receiving steam therefrom to drive said turbine.
- 17. (original) The apparatus as defined in claim 16 in which said steam generating means comprises:
 - (a) a water boiler;
 - (b) a source of water connected to said water boiler for supplying water thereto; and
 - (c) a condenser connected to said water boiler for condensing steam generated thereby.